

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
OCTOBER 2009 WATER QUALITY ANALYSES

FIELD MEASUREMENTS	YSI INSTRUMENT				HACH 2100P
TIME (HH:MM)	TEMP (°C) ¹	pH	DO (mg/l) ²	EC (<i>um</i> hos/cm) ³	TURBIDITY (NTU) ⁴
10:10 AM	21.14	NC ⁵	4.94	6161	40.2

FIELD OBSERVATIONS:

10:10 AM No observations were recorded or noted.

BACTERIAL ANALYSIS ATS LABORATORY IN BRAWLEY, CA.			CONCENTRATION (MPN/100ml) ⁶
TIME	STORET CODE	ANALYSIS METHOD	FECAL COLIFORM CONCENTRATION
10:10 AM	316315	Multiple Tube Fermentation	2,000

¹ Temperature is measured in units of degrees Celsius (°C)

² Dissolved oxygen (DO) is measured in units of milligrams per liter (mg/l)

³ Electrical conductivity (EC) is measured in units of micromhos per centimeter (*um*hos/cm)

⁴ Turbidity is measured in units of Nephelometer Turbidity Units (NTU).

⁵ This measurement was Not Collected.

⁶ Fecal Coliform density is reported as the most probable number per 100 milliliters of water sample (MPN/100 ml)

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NUTRIENT ANALYSIS CDPH- SOUTHERN CALIFORNIA LABORATORY ⁷				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (mg/l) ⁸
MBAS	38260	SM 5540C	0.1	0.134
Total Phosphate	00665	EPA 365.4	0.5	NR ⁹
O-Phosphate Phosphorous	00665	EPA 300.1	0.4	NR
Phenol	32730	EPA 420.1	0.05	<RL
Cyanide	00720	SM 4500C(E)	0.05	<RL
Ammonia - Nitrogen	00610	SM 4500	0.1	5.88
Nitrate - Nitrogen	71850	EPA 300.1	0.1	NR
Nitrite - Nitrogen	00630	EPA 300.1	0.1	NR
Hardness (as CaCO ₃)	00900	SM 2340C	1	1005
Total Alkalinity (CaCO ₃)	00410	SM 2320B	1	286
Bicarbonate	00440			NR
Total Dissolved Solids	70300	EPA 160.1	10	3690
Total Suspended Solids	00530	EPA 160.2	10	41
Turbidity (NTU)	82078	EPA 180.1	0.1	34.6
BOD	00310	SM 5210B	2	31.6
COD	00340	SM 5220	1	51.6

⁷ California State Department of Public Health, Division of Drinking Water and Environmental Management, Sanitation & Radiation Laboratory (South) in Los Angeles, CA.

⁸ These concentrations are reported in units of milligrams per liter (mg/l).

⁹ This analysis was not requested.

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METAL ANALYSIS CDPH – SOUTHERN CALIFORNIA LABORATORY				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (µg/l) ¹⁰
As-Arsenic	1002	EPA 200.8	1	6.53
Cd-Cadmium	1027	EPA 200.8	1	<RL
Cr-Chromium	1034	EPA 200.8	10	<RL
Cu-Copper	1042	EPA 200.8	50	<RL
Pb-Lead	1051	EPA 200.8	5	<RL
Se-Selenium	1147	EPA 200.8	5	6.29
Zn-Zinc	1092	EPA 200.8	50	<RL
Hg-Mercury	71900	EPA 200.8	1	<RL

ORGANIC ANALYSIS CDPH – SOUTHERN CALIFORNIA LABORATORY CONSTITUENT (GRAB SAMPLE) ¹¹	CONCENTRATION (µg/l)
BENZENE	<RL
BROMOBENZENE	<RL
BROMOCHLOROMETHANE	<RL
BROMODICHLOROMETHANE	<RL
BROMOFORM	<RL
BROMOMETHANE (METHYL BROMIDE)	<RL
N-BUTYLBENZENE	<RL
SEC-BUTYLBENZENE	<RL
TERT-BUTYLBENZENE	<RL
CARBON TETRACHLORIDE	<RL
CHLOROBENZENE (MONOCHLOROBENZENE)	<RL
CHLOROETHANE	<RL
CHLOROFORM	<RL
CHLOROMETHANE (METHYL CHLORIDE)	<RL
O-CHLOROTOLUENE (2-CHLOROTOLUENE)	<RL
P-CHLOROTOLUENE (4-CHLOROTOLUENE)	<RL

¹⁰ These concentrations are reported in units of micrograms per liter (µg/l).

¹¹ VOCs were analyzed using USEPA Method 524.2. The reporting limit for Methyl Ethyl Ketone is 2.0 µg/l. For all other constituents the reporting limits are 0.5 µg/l.

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DIBROMOCHLOROMETHANE	<RL
1,2-DIBROMOMETHANE	<RL
1,2-DICHLOROBENZENE (O-DCB)	<RL
1,3-DICHLOROBENZENE (M-DCB)	<RL
1,4-DICHLOROBENZENE (P-DCB)	<RL
DICHLORODIFLUOROMETHANE (FREON 12)	<RL
1,1-DICHLOROETHANE (1,1-DCA)	<RL
1,2-DICHLOROETHANE (1,2-DCA)	<RL
1,1-DICHLOROETHYLENE (1,1-DCE)	<RL
CIS-1,2-DICHLOROETHYLENE	<RL
TRANS-1,2-DICHLOROETHYLENE	<RL
1,2-DICHLOROPROPANE	<RL
1,3-DICHLOROPROPANE	<RL
2,2-DICHLOROPROPANE	<RL
1,1-DICHLOROPROPENE	<RL
CIS- & TRANS-1,3-DICHLOROPROPENE	<RL
ETHYL BENZENE	<RL
ETHYLENE DIBROMIDE (EDB)	<RL
HEXACHLOROBUTADIENE	<RL
ISOPROPYLBENZENE (CUMENE)	<RL
P-ISOPROPYLTOLUENE (P-CYMENE)	<RL
METHYLENE CHLORIDE (DICHLOROMETHANE)	<RL
METHYL ETHYL KETONE	<RL
METHYL ISOBUTYL KETONE	<RL
METHYL TERT-BUTYL ETHER (MTBE)	<RL
NAPHTHALENE	<RL
N-PROPYLBENZENE	<RL
STYRENE	<RL
1,1,1,2-TETRACHLOROETHANE	<RL
1,1,2,2-TETRACHLOROETHANE	<RL
TETRACHLOROETHYLENE (PCE)	<RL
TOLUENE	<RL

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1,2,3-TRICHLOROBENZENE	<RL
1,2,4-TRICHLOROBENZENE	<RL
1,1,1-TRICHLOROETHANE (1,1,1-TCA)	<RL
1,1,2-TRICHLOROETHANE (1,1,2-TCA)	<RL
TRICHLOROETHYLENE (TCE)	<RL
1,2,3-TRICHLOROPROPANE	<RL
TRICHLOROFLUOROMETHANE (FREON 11)	0.81
1,2,4-TRIMETHYLBENZENE	<RL
1,3,5-TRIMETHYLBENZENE	<RL
1,1,2-TRICHLORO-TRIFLUOROETHANE (FREON 113)	<RL
VINYL CHLORIDE (VC)	<RL
M,P-XYLENES	<RL
O-XYLENE	<RL